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AP20 REG' UPCTWTO 22 MAR 2006

ABSTRACT OF THE DISCLOSURE

A thickener for concentrating fiber suspensions is disclosed including a housing, a rotor arranged on the housing, a screen attached to the rotor for separating the fiber suspension into a first fraction passing through the screen substantially containing only fibers and a fraction not passing through the screen and containing coarse undesired particles, a stationary thickener surrounding the rotor and provided with through holes and supply conduits for supplying the first fraction to the stationary thickener for separating that fraction into a fraction passing through the holes in the stationary thickener and a separate fraction not passing through the holes in the stationary thickener. The through holes are dimensioned such that substantially only liquid is permitted to pass through the stationary thickener and the fraction which does not pass through the through holes comprises the thickened fiber pulp free of the undesired coarse particles.